

NOVEMBER/DECEMBER 2023

**DOCH35A/GOCH35A — INDUSTRIAL
CHEMISTRY - II**

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define battery.
2. List out any two differences between solar cells and fuel cells.
3. Define the term rodenticide.
4. Sketch the structure of aldrin.
5. What is synthetic petrol?
6. Write the uses of oil gas.
7. Illustrate shortly about binder pigment in paints.
8. What are nonionic detergents?
9. Classify cement.
10. List the compositions of optical glass.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Enumerate about the manufacture of perchlorates.

Or

- (b) List out the applications of primary and secondary cells.

12. (a) Name a fungicide and explain its mode of action.

Or

- (b) Sketch out the synthesis and uses of gammexane.

13. (a) Write notes on octane rating of petrol.

Or

- (b) Bring out the important uses of water gas and produces gas.

14. (a) Discuss about the formulation of paints.

Or

- (b) Explain about the preparation of toilet and washing soaps.

15. (a) Discuss the mechanism for setting of cement.

Or

- (b) Illustrate the manufacture of glass.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Elucidate regarding the production of following materials:

(a) Chlorine and

(b) Sodium chlorate.

17. Outline the synthesis of Parathion and Malathion and elucidate their mode of action.

18. Explicate about refining, cracking and reforming process in petrol.

19. Account on alkyl and aryl sulphonates and ethanolamines.

20. (a) Explain the composition and uses of feldspar and glazing.

(b) How coloured glasses are manufactured? Explain.